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APPLICATION NO.	FILING DATE _	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,365	09/25/2003	Baldev S. Ahluwalia	GEMS8081.149	2364
27061 7590 09/26/2007 ZIOLKOWSKI PATENT SOLUTIONS GROUP, SC (GEMS) 136 S WISCONSIN ST			EXAMINER	
			CHENG, JACQUELINE	
PORT WASHINGTON, WI 53074		ART UNIT	PAPER NUMBER	
		3768	······································	
		·	NOTIFICATION DATE	DELIVERY MODE
•			09/26/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	10/605,365	AHLUWALIA ET AL.
Office Action Summary	Examiner	Art Unit
	Jacqueline Cheng	3768
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.136(a). In no event, however, may a rood will apply and will expire SIX (6) MON tute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  JANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 21	August 2006.	
	his action is non-final.	·
3) Since this application is in condition for allow closed in accordance with the practice under		
Disposition of Claims		
4)  Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are without 5)  Claim(s) 15 and 16 is/are allowed.  6)  Claim(s) 1-6, 8, 12-14, 17 is/are rejected.  7)  Claim(s) 7,9-11 and 18-20 is/are objected to 8)  Claim(s) are subject to restriction and	drawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exam		
10) The drawing(s) filed on is/are: a) a		
Applicant may not request that any objection to t		
Replacement drawing sheet(s) including the corn 11) The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for fore  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents.	ents have been received.	
<ul> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the papplication from the International Burn</li> </ul>	riority documents have been	
* See the attached detailed Office action for a	,	received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(	Summary (PTO-413) s)/Mail Date
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of (	nformal Patent Application

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/605,365

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#### **DETAILED ACTION**

### Response to Arguments

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6, 8, 12-14, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Foo (US 6,526,307 B2). Foo discloses a method and apparatus for suppression of tissue during gradient echo imaging. The system comprises the usual MRI parts including the standard gradient coils positions about a bore, transmitting receiving components for transmitting and receiving a FR signal, and control and arithmetic operation components, including a computer (fig. 1). The computer system also comprises an input device that enables an operator to control the production of the images on the screen. Parameters that are often used to control the production of the images (identifying a set of imaging parameters) are receiver bandwidth, x-resolution, TR, T1, flip angle, y-resolution and number of slices. The system control then receives these commands of the imaging parameters from the operator to carry out the desired scan sequence (which would correspond to the selected imaging-parameters) (col. 5 line 43-55).

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First a spectrally-selective inversion pulse selecting normal myocardial tissue is selected (col. 6 line 46-49). Then a number of excitation (alpha) pulses is set. It would be obvious that the setting of an optimal number of alpha pulses would be carried out on the fly as Foo discloses it is preferable to acquire the data during a single breath hold. Depending on how long the person held their breath each time would determine the number of alpha pulses, which would have to be done on the fly as the person starts and stops holding their breath (col. 7 line 11-22). The computer can also determine the null point of the tissue and the T1 times for the tissue (col. 6 line 43-61) and can provide either a 2D or a 3D acquisition sequence (col. 7 line 18-22).

## Allowable Subject Matter

- Claim 7, 9-11 and 18-20 are objected to as being dependent upon a rejected base claim, 4. but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- Claims 15 and 16 are allowed. 5.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline Cheng whose telephone number is 571-272-5596. The examiner can normally be reached on M-F 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JC

ELENI MANTIS MERCADER
SUPERVISORY FATENT EXAMINED